

## ROLLING CIRCLE REPLICON EXPRESSION VECTORS

### Abstract

5           A rolling circle DNA replicon which replicates in a host eukaryotic cell and is  
capable of eliciting an immunization reaction is disclosed. The rolling circle DNA  
replicon comprises a Rep gene open reading frame placed under transcriptional  
control of a promoter, which is placed 5' of the gene. Any sequences that are required  
to be present in *cis* on the rolling circle DNA replicon in order that the Rep protein  
10 might promote replication of the rolling circle DNA replicon and elicit an  
immunization reaction are included. At least one expression cassette with an RNA  
polymerase II promoter, a multiple cloning site, and transcription termination and  
polyadenylation signals suitable for transcription of RNA molecules not normally  
intrinsic to a geminiviral, circoviral or nanoviral genome is also included.